

Form PTO-1449

**U.S. Department of Commerce  
Patent and Trademark Office**

**Atty. Docket No.**  
**56534-**  
**B/JPW/JSG**

**Serial No.**  
**09/320,299**

**Applicant: Jeannette Whitcomb**

**Filing Date**  
**May 26, 1999**

Group Art Unit  
1645 1648

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Sakar, G. and Sommer, S.S. (1990) "The "Megaprimer" Method of Site-Directed Mutagenesis" Biotech, **8(4)**:404-407 (Exhibit 1);  
 Balzarini J, (1998) "A Novel Mutation (F227L) Arises in the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 on Dose-Escalating Treatment of HIV Type 1-Infected Cell Cultures With the Nonnucleoside Reverse Transcriptase Inhibitor Thiocarboxanilide UC-781" AIDS, **14(3)**:255-260 (Exhibit 2);

**EXAMINER**

**DATE CONSIDERED**

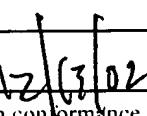
V2-13102

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**Applicant: Jeannette Whitcomb**  
**Serial No.: 09/320,299**  
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**Exhibit A**

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 56534-B/JPW/JSG	Serial No. 09/320,299	
 <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)					Applicant: Jeannette Whitcomb		
					Filing Date May 26, 1999	Group Art Unit 1645 1648	
U.S. PATENT DOCUMENTS							
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	
						No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
   	Balzarini J, et al. (1997) "Zidovudine-Resistant Human Presence Immunodeficiency Virus Type 1 Strains Subcultured in the of Both Lamivudine and Quinoxaline HBY 097 Retain Marked Sensitivity to HBY 097 but not to Lamivudine" <u>J of Infect Dis</u> , 176:1392-1397 (Exhibit 3);						
		De Clercq E, (1997) "Development of Resistance of Human the 4); Immunodeficiency Virus (HIV) to Anti-HIV Agents: How to Prevent Problem" <u>Intnl of Antimicro Agnts</u> , 9:21-36 (Exhibit 4);					
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## FOREIGN PATENT DOCUMENTS

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						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	D'Aquilla R.T. (1994) "Molecular Pathogenesis and Laboratory Monitoring", <u>Clin Lab Med</u> 14:393-423;
	DeJong, M.D., et al. (1994) "Alternating Nevirapine and Infected Zidovudine Treatment of Human Immunodeficiency Virus Type 1-Persons Does Not Prolong Nevirapine Activity", <u>J Infect Dis</u> 169:1346-1350;
	Dueweke, T.J., et al. (1993) "A Mutation in Reverse Transcriptase of Bis (Heteroaryl) Piperazine Resistant Human Immunodeficiency Virus Type 1 That Confers Increased Sensitivity Nonnucleoside Inhibitors", <u>PNAS</u> 90:4713-4717;
	Eastman, P. Scott, et al. (1995) Monisotopic Hybridization Assay for Determination of Relative Amounts of Genotypic Human <u>Micro</u> -Immunodeficiency Virus Type 1 Zidovudine Resistance", <u>J Clin Micro</u> 2777-2780;
EXAMINER	DATE CONSIDERED

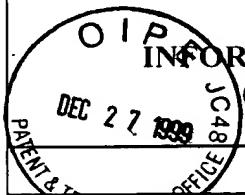
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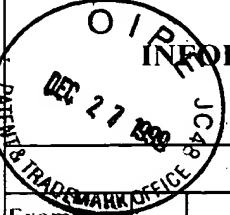
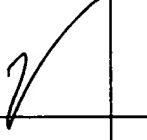
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Lieven Stuyver, et al. (1997) "Line Probe Assay For Rapid Detection Of Drug Selected Mutations In The Human Immunodeficiency Virus Type 1 Reverse Transcriptase Gene", Antimicro Agen and Chemother, 284-291;							
	Mohri, H., et al. (1993) "Quantitation of Zidovudine Resistant Human Immunodeficiency Virus Type 1 in the Blood of Treated and Untreated Patients", PNAS 90:25-29;							
	Nájera, I., et al. (1994) "Natural Occurrence of Drug Resistance Mutations in the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 Isolates", Aids Res Hum Retroviruses 10:1479-1488;							
	Nájera, I., et al. (1995) "pol Gene Quasispecies of Human Immunodeficiency Virus: Mutations Associated with Drug Resistance in virus from Patients Undergoing No Drug Therapy", J Virol 69:23-31;							
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						Yes
						No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Nunberg, J.H., et al. (1990) "Viral Resistance to Human Immunodeficiency Virus Type 1-Specific Pyridinone Reverse Transcriptase Inhibitors", <u>J Virol</u> 65:4887-4892;					
	Richman, D.D. et al. (1994) "Nevirapine Resistance Mutations of Human Immunodeficiency Virus Type 1 Selected during Therapy", <u>J Virol</u> 68:1660-1666;					
	Richman, D.D. et al. (1991) "Human Immunodeficiency Virus Type 1 Mutants Resistant to Nonnucleoside Inhibitors of Reverse Transcriptase Arise in Tissue Culture", <u>PNAS</u> 88:11241-11245; and Sanger, et al. (1977) "DNA Sequencing with Chain-terminating Inhibitors", <u>PNAS</u> 74:5463-5467.					
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